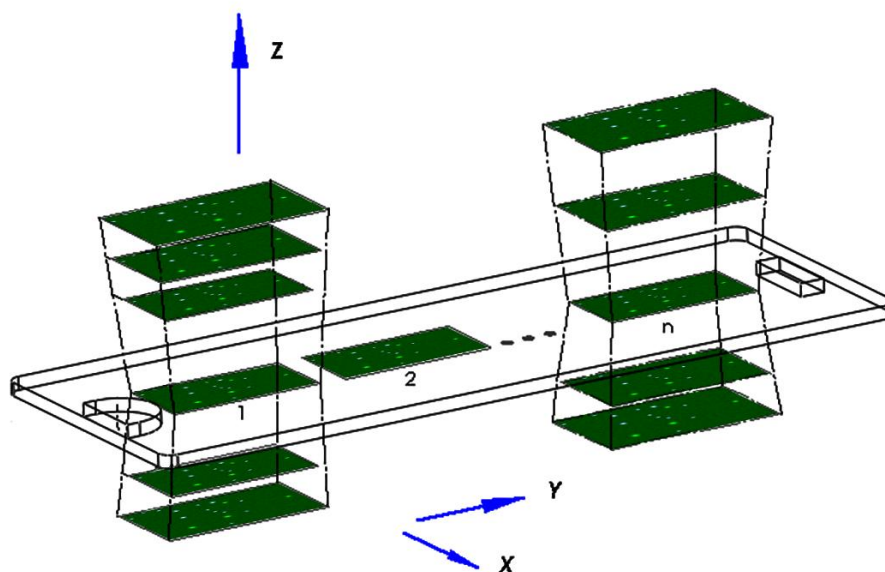


Working principle of LACTOSCAN SCC

Unique, 3D, multi-image, patent application protected, sequential scanning process, based on a precise fluorescent optics and low magnification, images analysis software, LACTOSCAN SCC is fast, precise and reliable counter of somatic cells. Via automatic displacement of the mechanism on axles X – Y and liquid lens Z, the device is capturing maximum 60 images. After capturing, the images are being processed by the embedded software and the average result, calculated by using the formula from IDF/ISO 13366, of all the filmed images is displayed. The whole process, after placing the LACTOCHIP in the cartridge, is automatic.

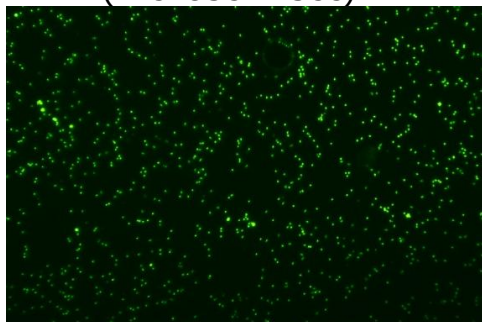


LACTOSCAN SCC compared with a standard methods for Somatic Cells Counting

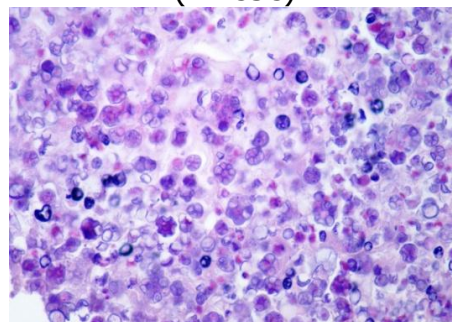
The below described data are based on validation and check of LACTOSCAN SCC done by the "Biotechnologies" body of University "Prof. Asen Zlatarov", Bulgaria

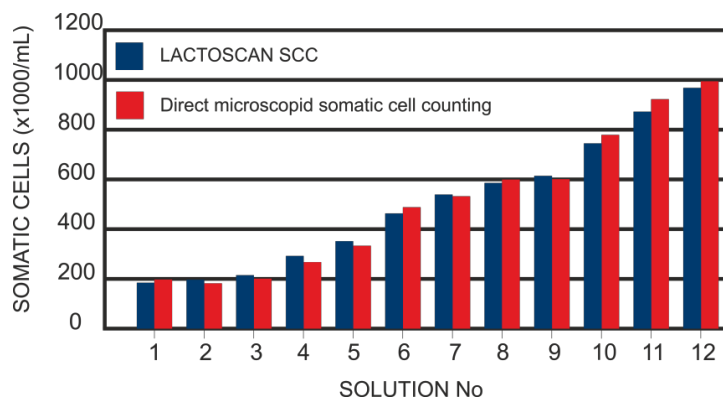
1. Accuracy of analysis – comparison between LACTOSCAN SCC and Direct microscopic counting of somatic cells (DMCSC)

Images of somatic cells
(LACTOSCAN SCC)



Images of somatic cells
(DMCSC)





LACTOSCAN SCC		Standard method	
NSC (cells/ml)	*CV %	NSC (cells/ml)	*CV %
100 000	5%	100 000	7%
500 000	3%	400 000	5%
1 000 000	2%	600 000	4%

*Coefficient of variation

2. Compatibility – ratio between data from LACTOSCAN SCC and DMCS

